

FIG. 2B

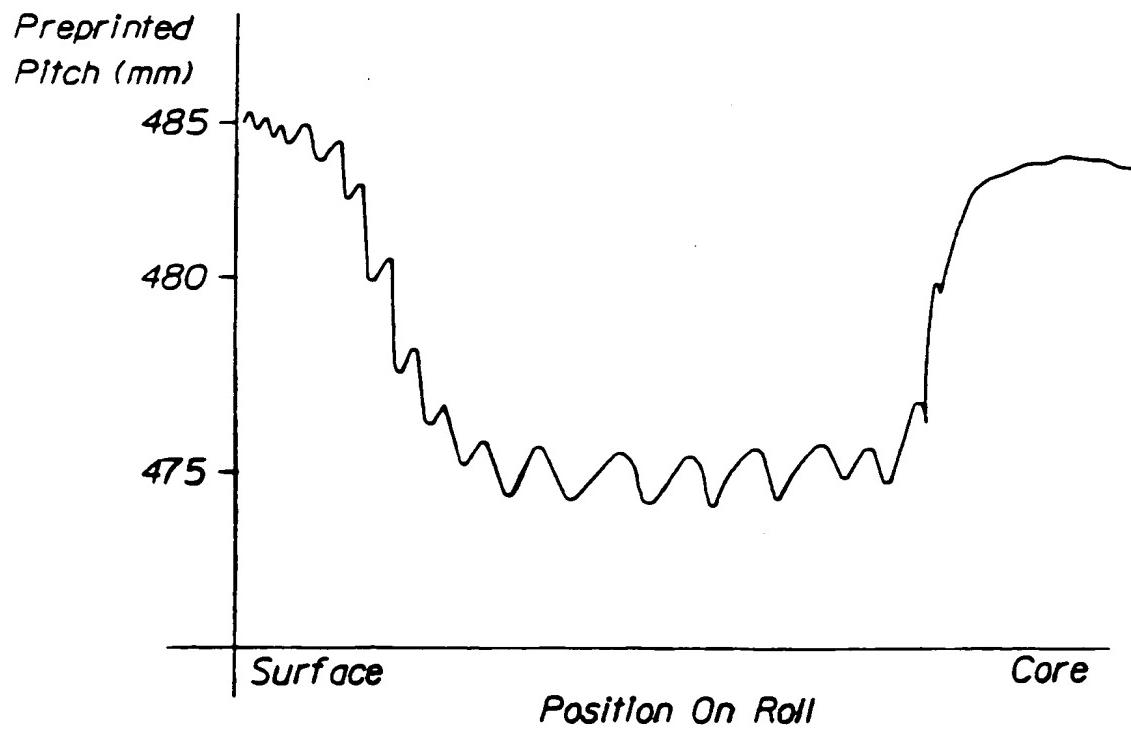


FIG. 3

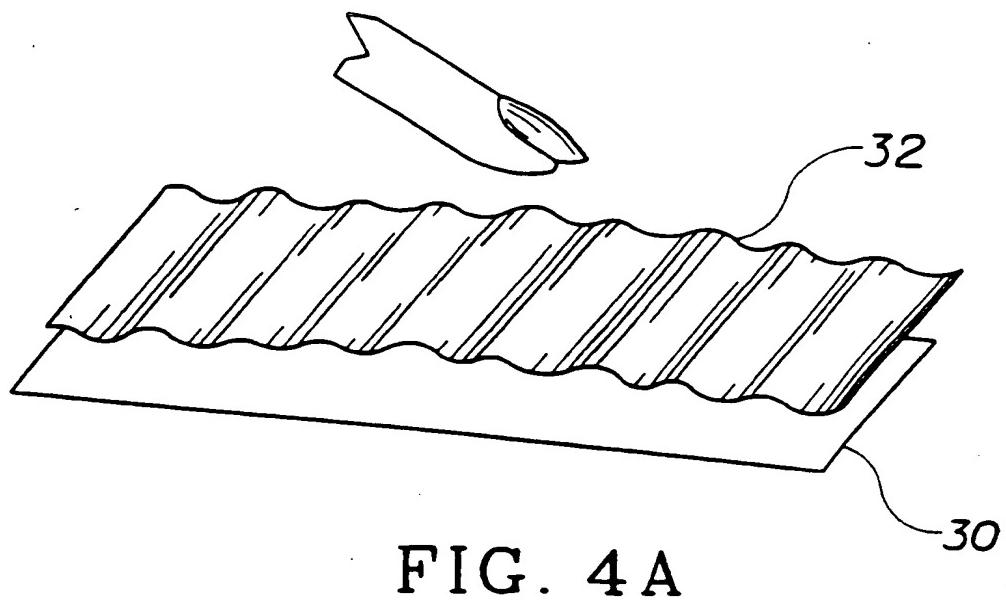


FIG. 4A

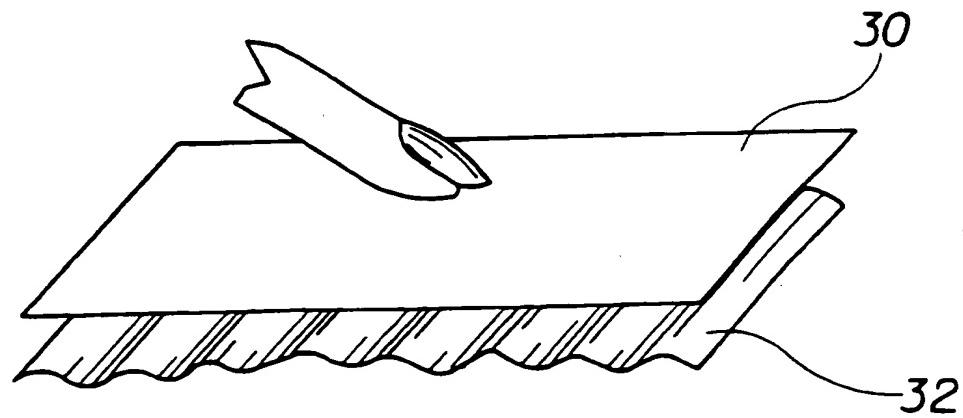


FIG. 4B

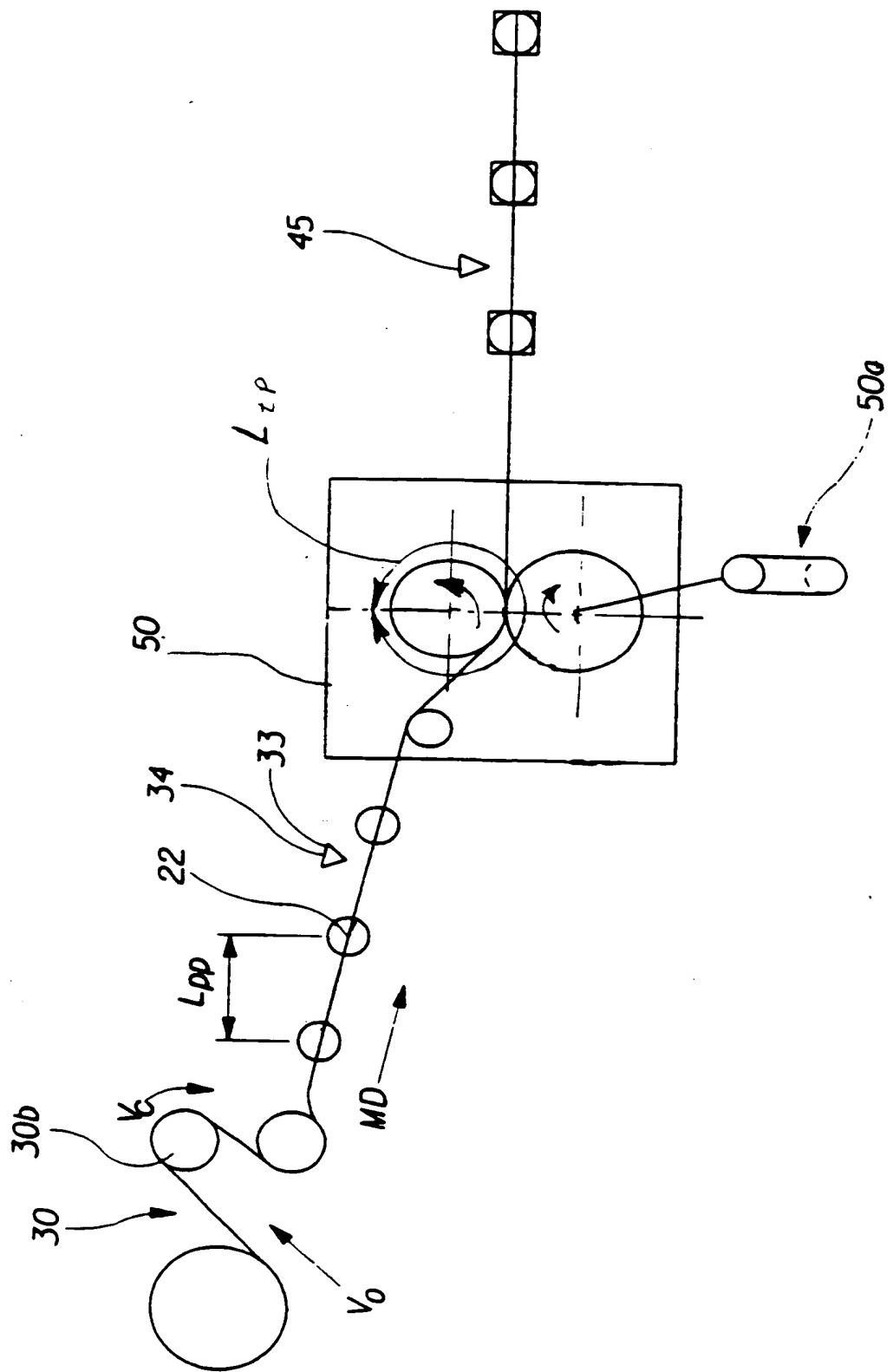


FIG. 5A

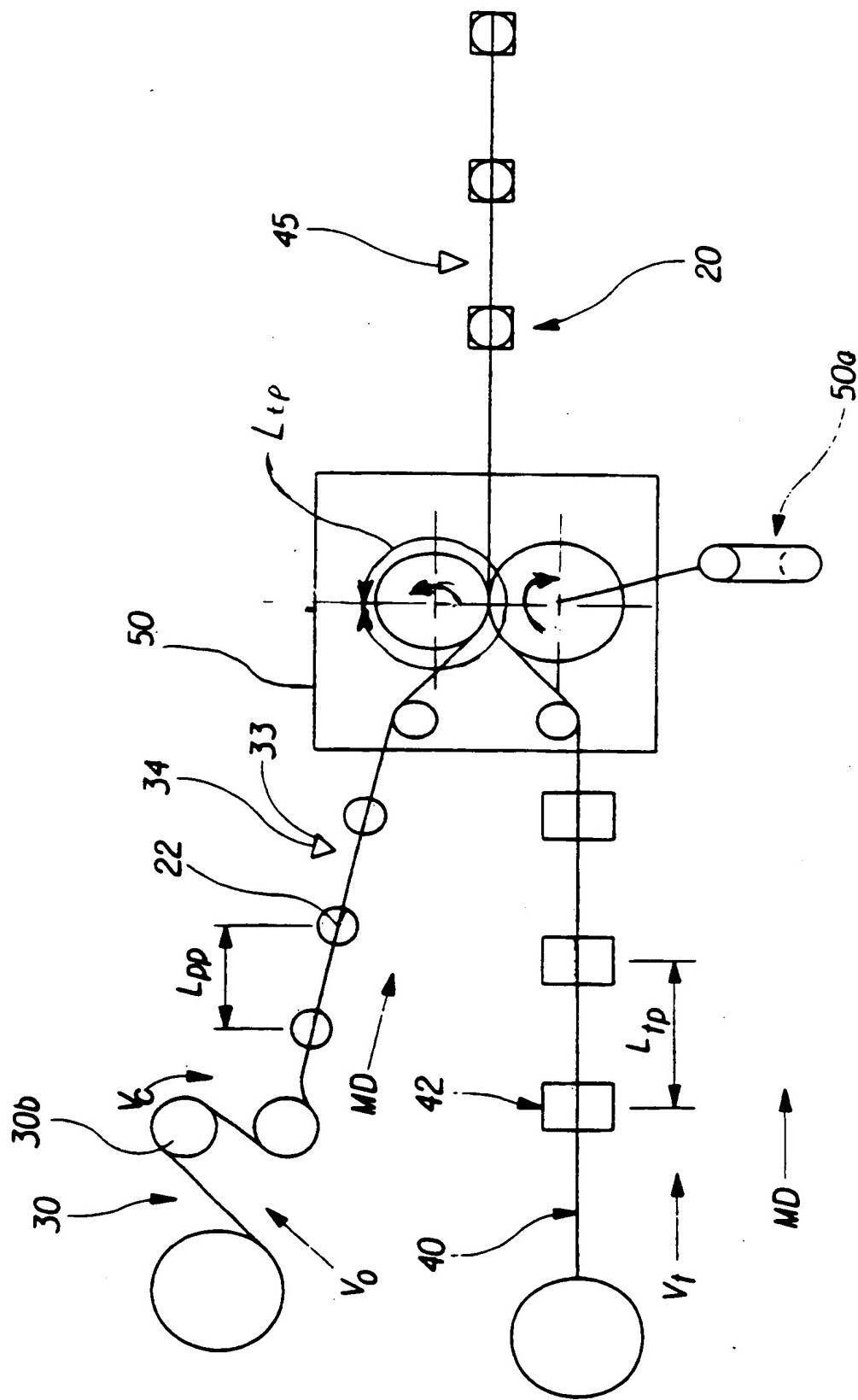


FIG. 5B

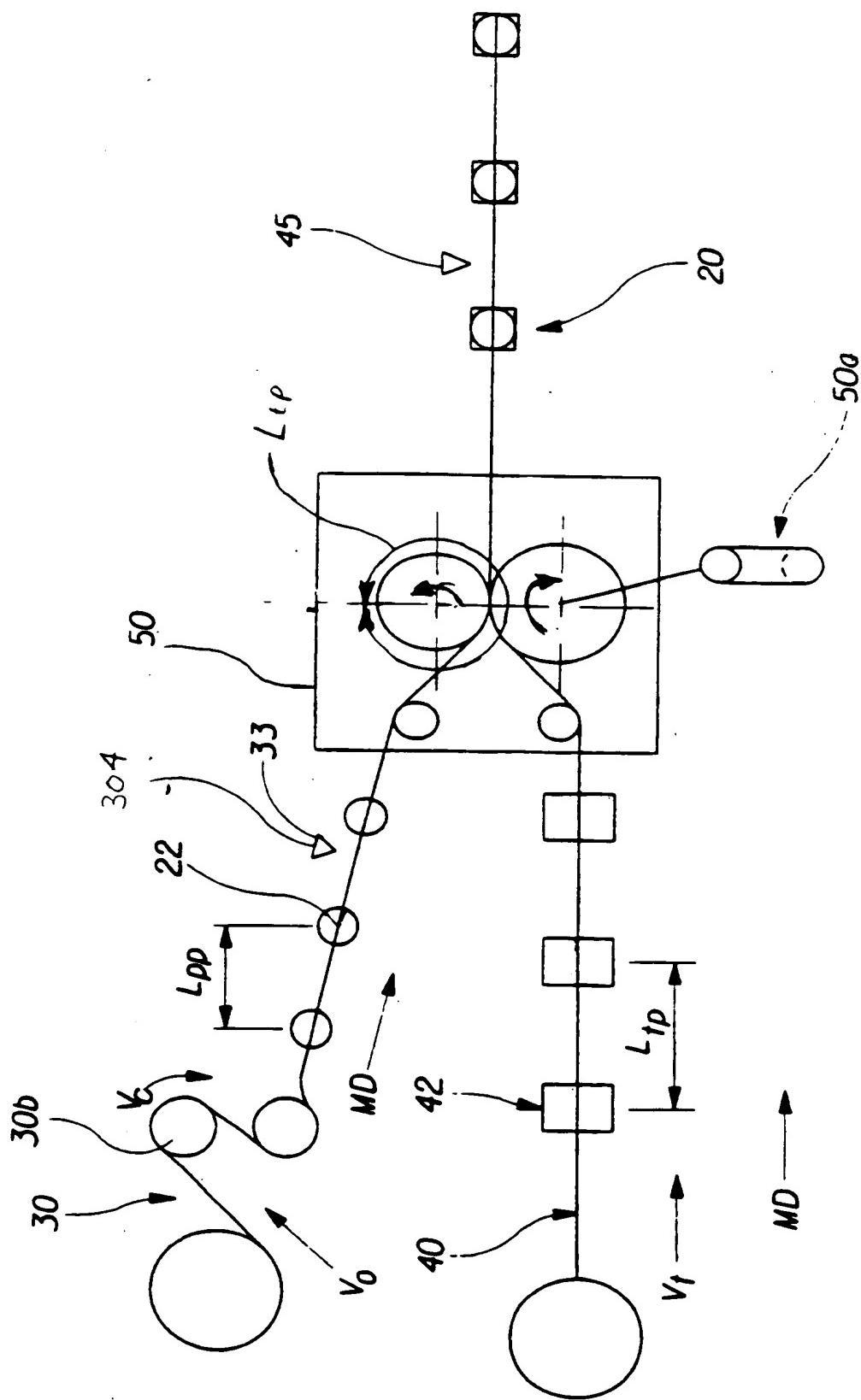


FIG. 5C

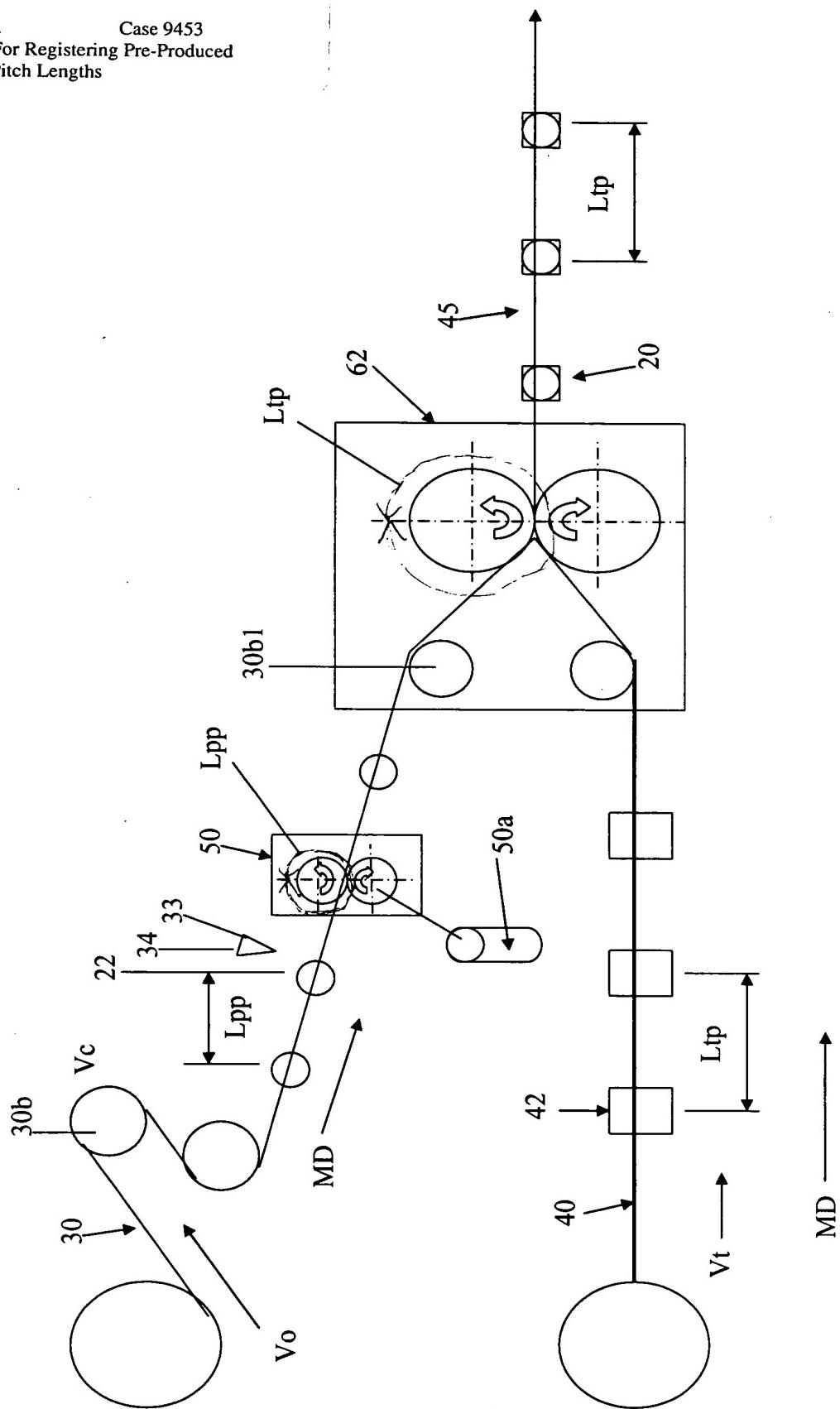


FIG. 5D

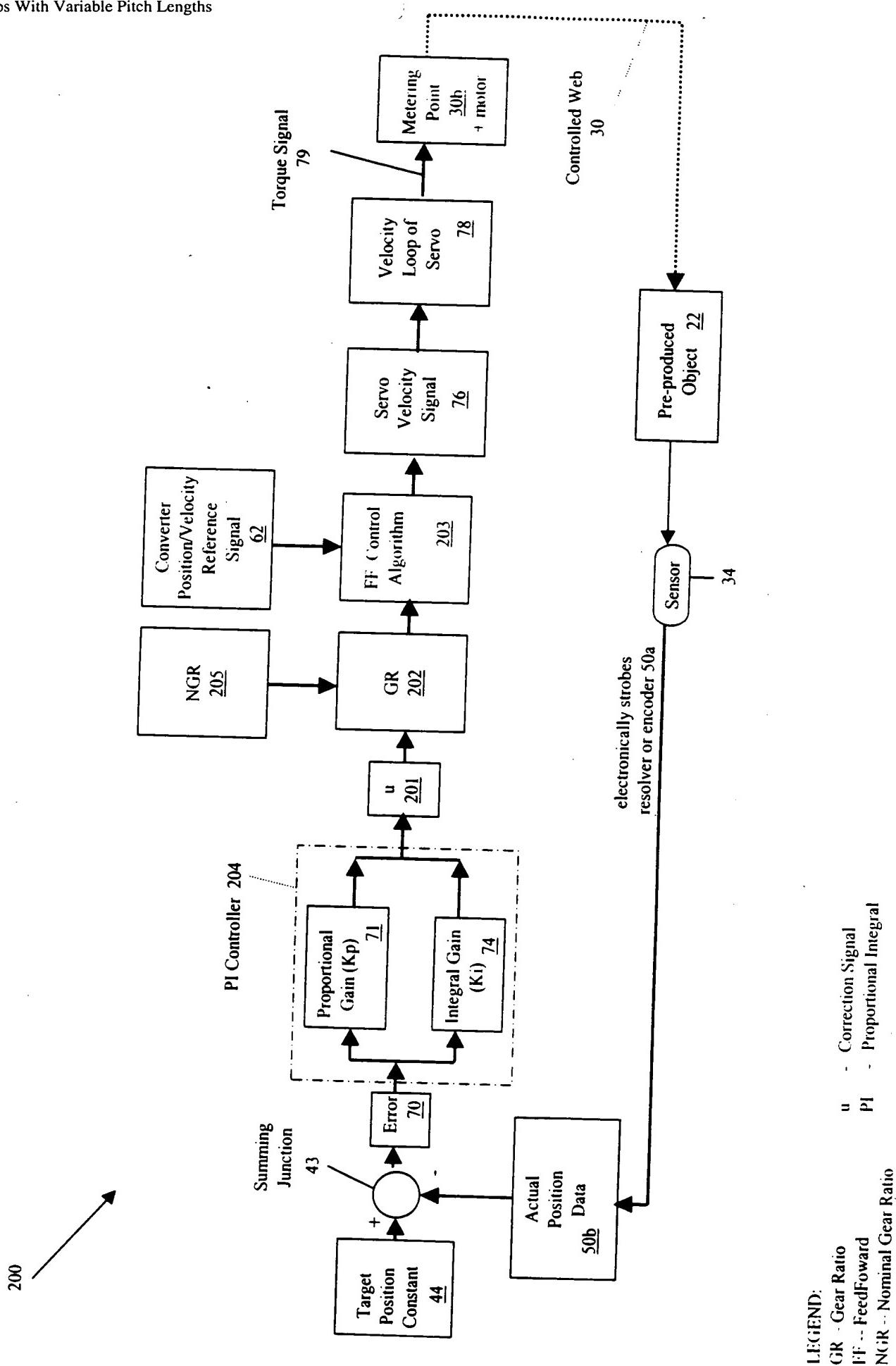


FIG. 6A

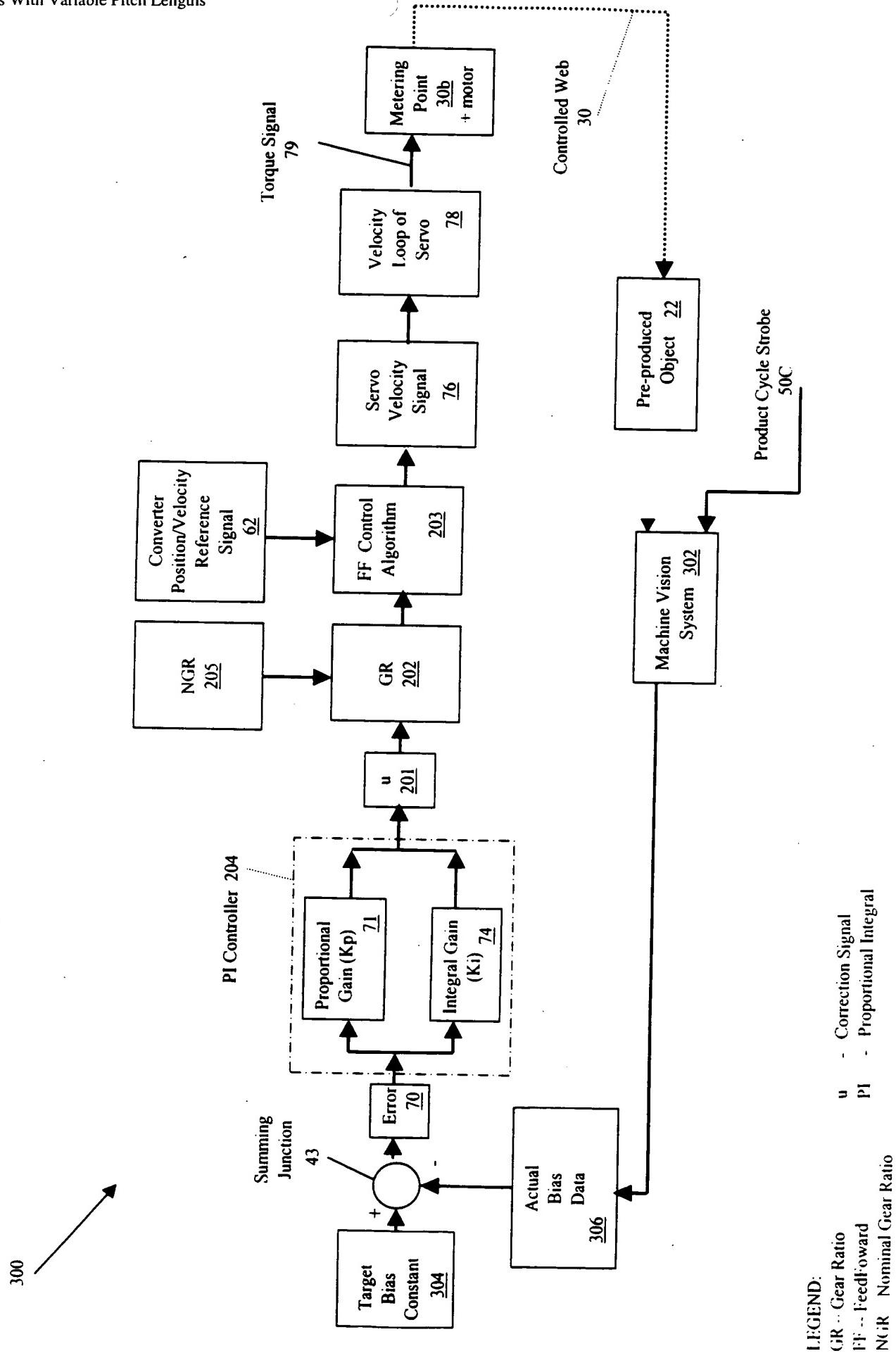
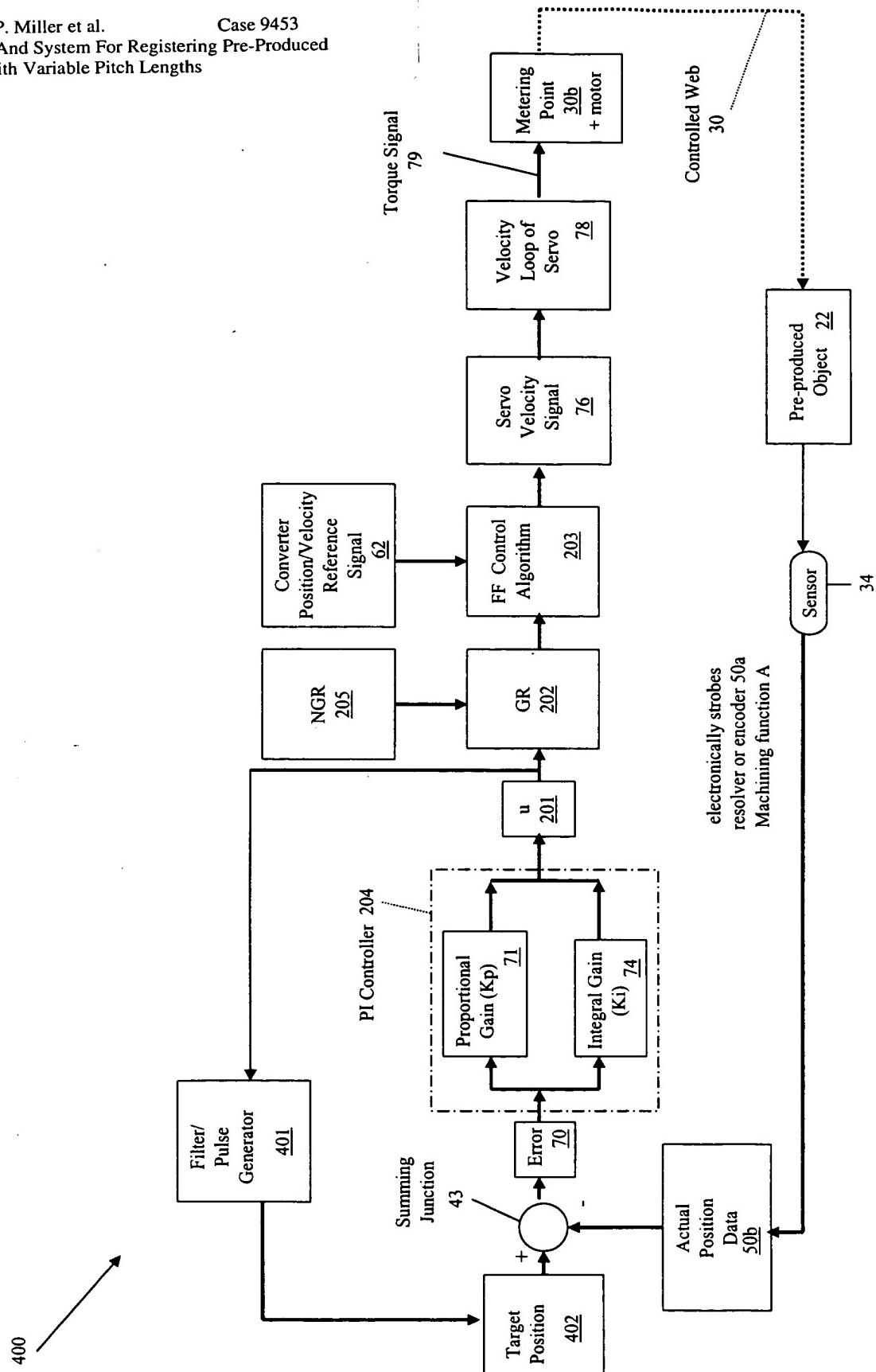


FIG. 6B



LEGEND:
 GR - Gear Ratio u - Correction Signal
 FF - FeedForward PI - Proportional Integral
 NGR - Nominal Gear Ratio

FIG. 6C

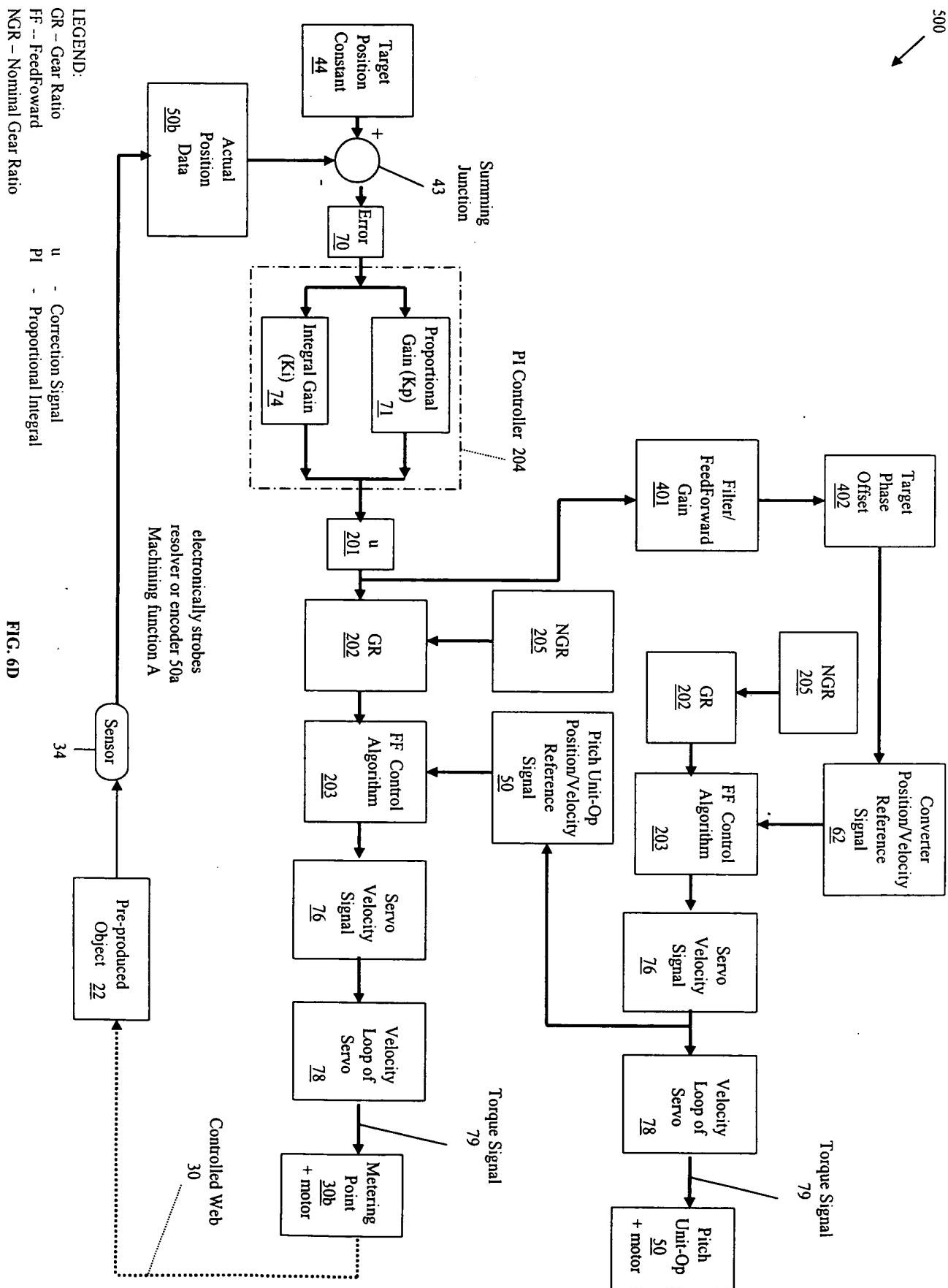


FIG. 6D

LEGEND:
 GR - Gear Ratio
 FF - FeedForward
 NGR - Nominal Gear Ratio

GR
 FF
 NGR

u
 PI

34

Controlled Web
 30

electronically strobes
 resolver or encoder 50a

Machining function A

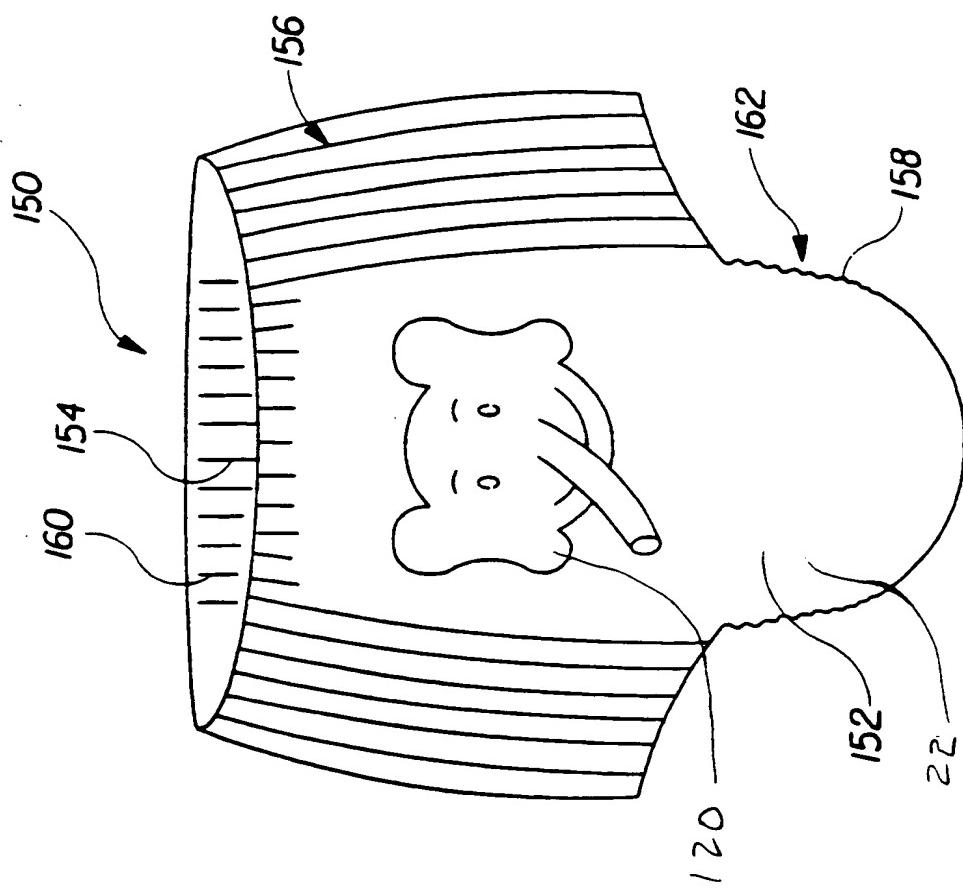


FIG. 7

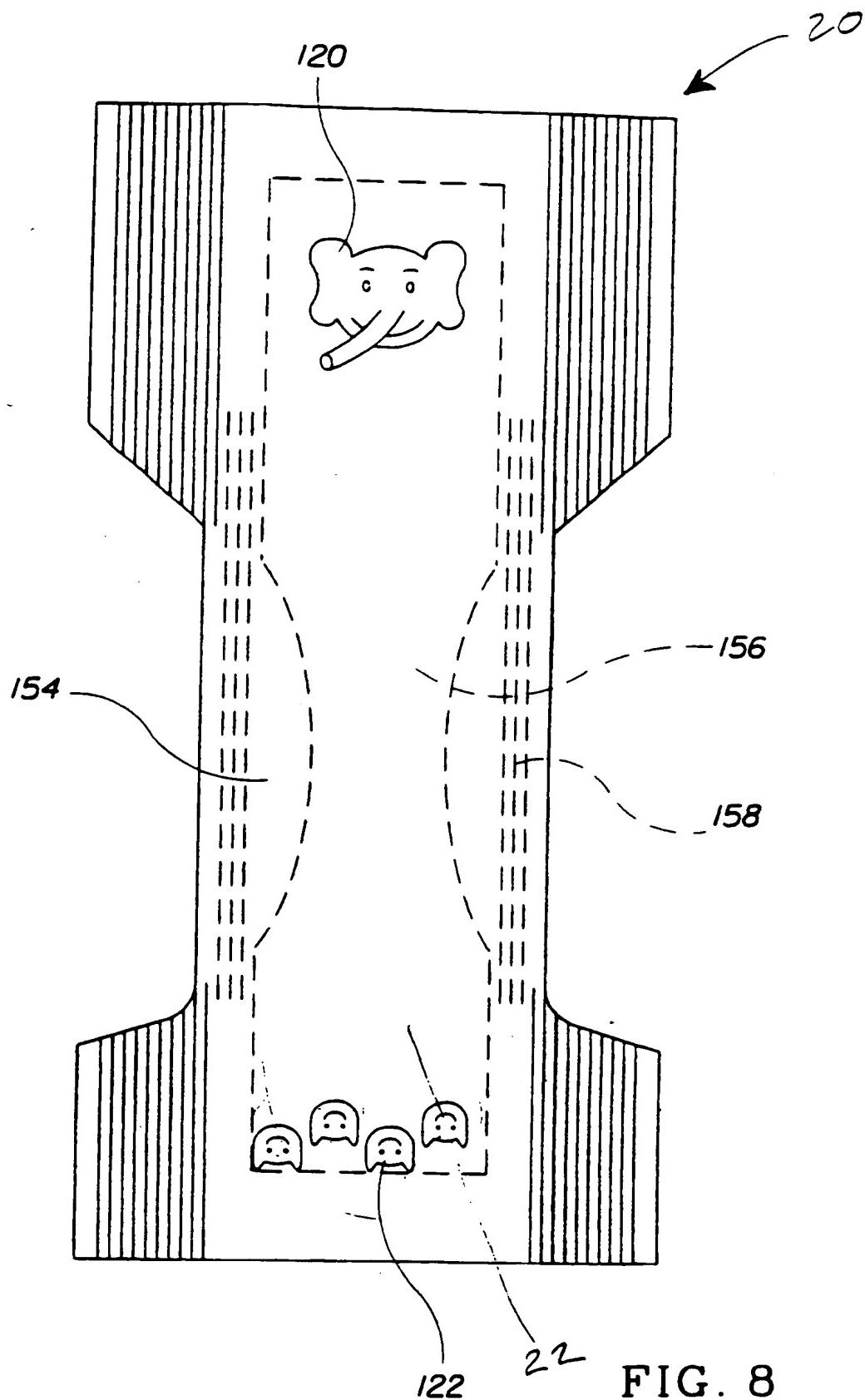


FIG. 8

FIG 9A

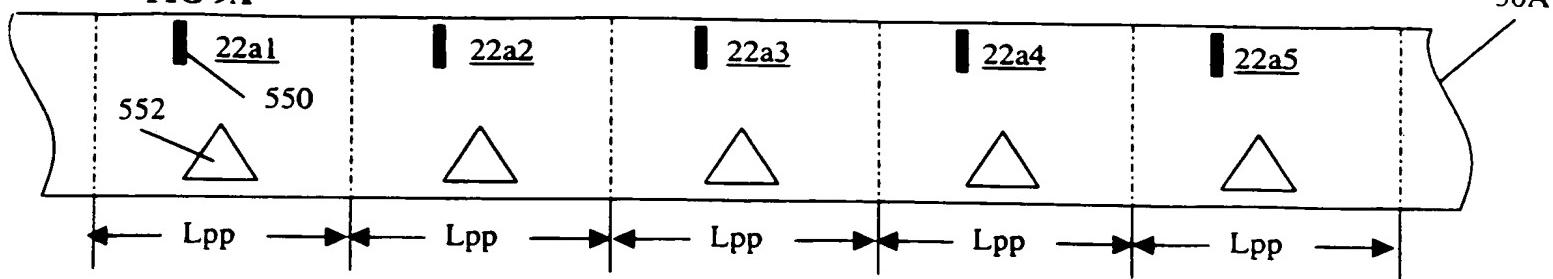


FIG 9B

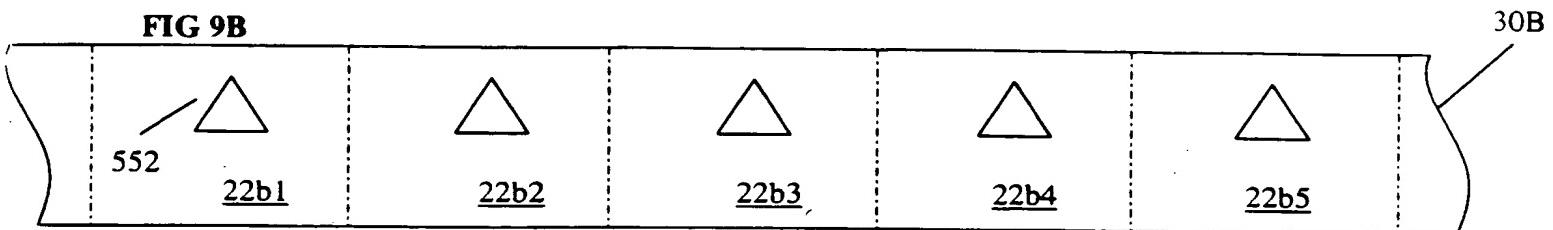


FIG 9C

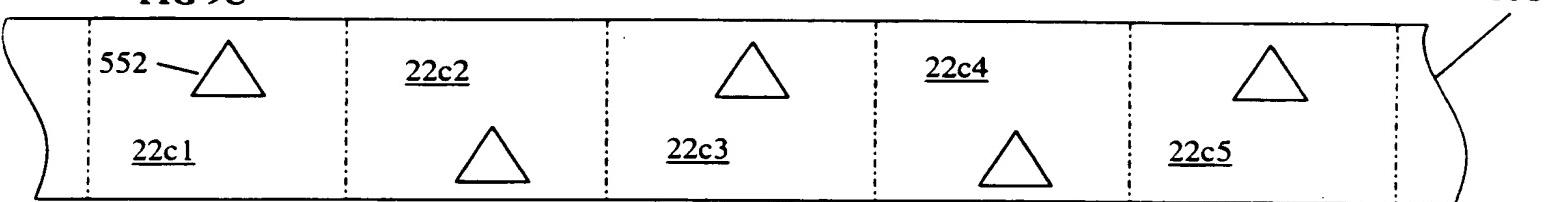


FIG 9D

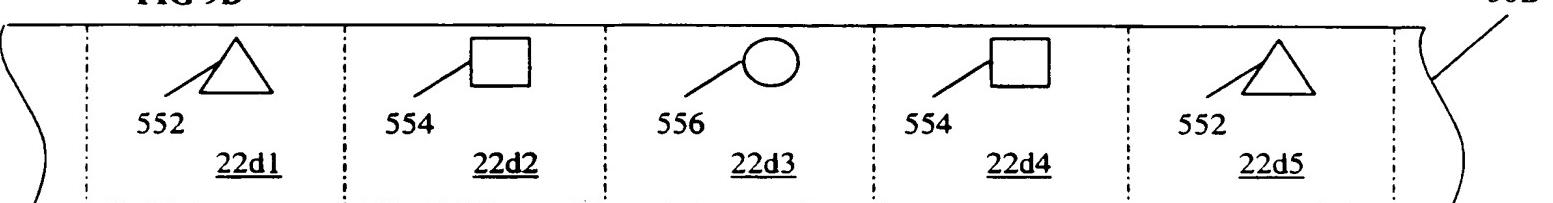


FIG 9E

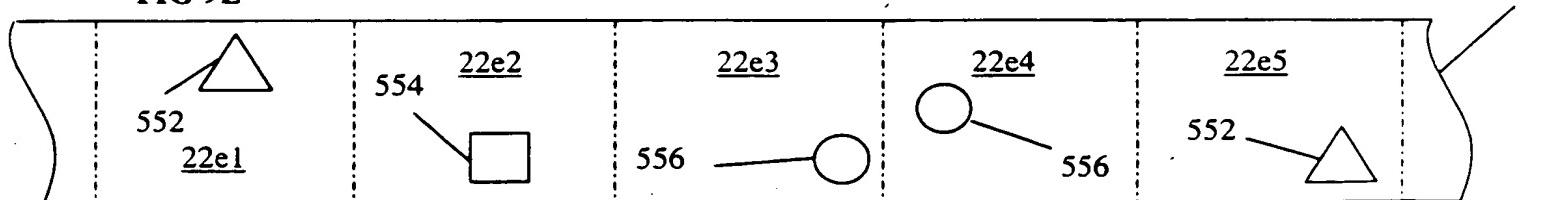


FIG. 9

